Scott II-27—68,004—4-11-46.

Public Works (1947) Department.

Ms SERIES.

G.O. NO. 471

471

Dated 24-2-1947

Closed
&
Supd

[Despatch Abstract.]

Buildings - South Kanara - Mangalore - Govt Head
Hospital Improvements to surface drains - Expenditure
Rs 7300/ Ap

Medical Department.

From

Major-General J.P. Huban, CBE., DSO., IMS., LL.,
Surgeon-General with the Govt. of Madras.

To

The Secretary to Government,
Education and Public Health Department, Madras.

Ref. No. 36107-A/45. Madras dated 6

Sir,

Sub:- Buildings - South Kanara - Government Head Quarters Hospital, Mangalore - Disposal of Buildings - Revised plans and estimates submitted to Government for approval.

There is at present no proper arrangement for

CRP/8/7/47

C No 1076 C/47.

EC

3

C.F. 16. PWD

DRAFT FOR APPROVAL.

	Date.	Initials.
When received for fair copying ..	24/2/47	
When copied ..		
When examined ..	25/2/47	
When signed ..	25/2/47	
When despatched.	26/2/47	

SUBJECT :— Buildings - South Kanara - Mangalore - In the Headquarters Hospital - Improvements to ~~the~~ surface drains - Expenditure-Rs 7300/- Appro

READ AGAIN ....., dated ..... 19.....

" " ..... " ..... 19.....

READ *ALSO* :—

P 1-2 of C.No. 1076 C/47 From the Surgeon General, No. 36107 M/45 dated 6-2-1947

" ..... " ..... " ..... " ..... 19.....

" ..... " ..... " ..... " ..... 19.....

Order ~~Resolution~~ Ms. ~~Rout.~~ No. 471, dated 24 - 2 - 1947

H.E the Governer of Madras approves an expenditure of Rs 7300/- (Rupees seven thousand three hundred only) on carrying out improvements to the surface drains in the compound of the Govt Headquarters Hospital at Mangalore.

2) The expenditure is debitable to "50-a Civil Works - Original Works - Buildings - L - Medical - Minor Works"

To THE CE. (yl 840) (J)
(with plan & estimates)
Copy to S.G.
1 spare copy with Bch Dy

82. 20/2/47

25/2 20/2/47

Note: May be sent to Finance for acceptance. The work has been included in the current year's Minor Works Budget.

9965 Expe 1168

P.W.D. C.E. No. 1076 C/47-1 24/2/47. 20-2-47.

ASSISTANT S 20 FEB 1947

Fin EXP C

The draft order above may be accepted.

21.2.47

Fin no: 9965 Expe-1
21-2-47

P.

South Indian Railway.

TELEGRAM : SILVIA, Trichinopoly.
TELEPHONE : T R 177 & 178.

General Manager's Office,
Trichinopoly, 2nd May, 1947.

No. G.M.363/1.

The Secretary to the Govt. of Madras,
Education and Public Health Department,
Fort St. George, M a d r a s.

38642
6 MAY 1947
EDUCATION AND PUBLIC HEALTH DEPT.

Public Health - Mangalore Railway Colony - rendered insanitary by sullage water from Government Hospital and Police Lines.

.....

I enclose a copy of the notes of a discussion held on 7-1-1944 between the Railway authorities and the Municipal Health Officer, Mangalore with regard to the nuisance caused by the Government Hospital and Police lines situated in the vicinity of the Railway colony at Mangalore. The matter was referred to the Director of Public Health who promised to take action on the matter in consultation with the Sanitary Engineer to the Government of Madras - vide copy of his letter, dated 27-4-1944 enclosed. The Sanitary Engineer in his report dated 10-8-1945 recommended a comprehensive scheme. The District Medical Officer, South Canara, was asked by the Surgeon-General to contact the Public Works Department and the plan and estimate for the work are now with the Chief Engineer to Government of Madras.

The question was first mooted in December 1943 and has been pending for over 3 years and in the meanwhile the sanitation of the colony has deteriorated day by day causing concern to this Administration. I request that the Government may be pleased to direct the concerned Department to take early action in the matter and execute the necessary works as early as possible.

Enc: 3 in 5 sheets

for General Manager.

No. G.M.363/1, dated 2-5-1947.

Copy to the Secretary to the Govt. of Madras, L.A.Department.
" Secretary to the Govt. of Madras, Public Works Dept.
" Director of Public Health, Madras.
" Commissioner, Mangalore Municipality.

Encl. 3 in 5 sheets.

VG.

H.P.H (D3)

Endt. No. 38642 D3/H7-P.H dt. 19-5-17.

Reference to the S.G. HC is requested to send a report in so far as the Govt. Homoeopathic Hospital is concerned, consulting the D.P.H. if necessary.

17.5.17

Home (Photo copy below)

H/S

Dr so far as the Govt. Hospital is concerned, Officers may be asked to send a report. As regards the Police Lines, the copy below may be forwarded to Home for separate action in the matter as it is no more.

17.5.17.

17/5/17

Home

Note of Discussion on the Sanitation in Mangalore Railway Colony, dated 7th January 1944.

.....

Present:

(1) Sri B. Subraya Baliga L.M.S. & D.T.M.(Cal.)
Municipal Health Officer, Mangalore.

(2) Capt. A.V.Ananthanarayanan Iyer, M.B.B.S., I.M.S.,
District Medical Officer, Podanur.

(3) Sgt. Major G. Webb, Reserve Police representing the District Supdt. of Police, S. Kanara, Mangalore.

(4) Major C.H. Biddulph, I.E.,
District Engineer, S.I.Ry., Cannanore.

The nuisance is seen to originate from two sources:

(a) The Government Hospital,

(b) The Reserve Police Lines.

The nuisance due to item (a) affects the colony in its Northern limits and (b) along the Western and Southern limits and is bad in the vicinity of the Mensal's colony area.

After inspection we consider that conditions can be considerably improved by adopting improvements as detailed below:--

Hospital Area:

The entire sullage from the Hospital Area (120 beds) is diverted through masonry surface drains into the Railway Colony on its Northern Boundary.

Originally a large circular masonry sump or filtering medium appears to have been provided a few feet inside the Hospital premises and the intention presumably was to empty this sump at fixed intervals, or allow a clear innoxious effluent to drain into the open storm water drain passing throught the Railway premises.

Actually the inlet to the above sump or filter medium, has been blocked and all the sullage now directly enters the Railway premises through the open storm water drain.

This is a most unsatisfactory state of affairs and must be set right early.

It is suggested that the present arrangement be examined in detail by the Public Works Department conjointly with the Department of Public Health and reported on as to its suitability and adequacy. If it is found that the original arrangement is unsuitable, or inadequate, urgent steps must be taken to provide a septic tank of a suitable size to cope with the entire sullage from the Hospital. The effluent from which may then be permitted to enter the open storm water drain passing through Railway limits.

p.t.o.

9

Reserve Police Line:

On inspection it is found that the entire sullage water from these lines (300 quarters approximately, or 1500 persons) enters the open storm water drain flowing along the Western and Southern limits of the Railway Colony, within Railway premises. Originally this sullage water was collected in a ~~[illegible]~~ fairly large rectangular masonry sump at the lowest point and from this sump it flowed into some type of filtering medium, or dispersal trench. This arrangement has now been abandoned and the sump filled in and two small masonry drains constructed, which lead all the sullage directly into the open storm water drain referred to above.

There is not sufficient sullage to produce a free flow in this storm water drain, with the result that it accumulates in certain lengths and encourages the breeding of mosquitos and constitutes a nuisance to the inmates of the Railway Quarters.

We are of opinion that adequate arrangements must be made for dealing with this sullage during the dry period, November to May, each year. During the monsoon the sullage will be considerably diluted and the flow in the storm water drain being considerable it will be removed clear of Railway premises without constituting a nuisance.

It is essential that the masonry sump referred to above should be opened out, a suitable filter medium provided in conjunction with it and that this arrangement be observed for a period (one dry season) and reported upon.

Should this arrangement not prove satisfactory a more permanent arrangement must be provided. The two alternatives suggested are:--

(a) Disposal of the sullage direct from the masonry sump by pumping into Municipal Lorries and removal.

(b) The provision of a masonry drain of small section throughout the length of the storm water drain within Railway premises with a suitable bed fall to carry the sullage away so that it does not constitute a nuisance to the Railway Administration.

1. Municipal Health Officer, Mangalore.

2. District Medical Officer, S.I.Ry.

3. For District Supdt. of Police, S.K., Mangalore.

4. District Engineer, Cannanore.

11

Copy of letter No.2265-2-VI of 44, dated 27th Jan., 4 from the Director of Public Health, Madras, to the C.M.O. (Chief Medical Officer), South Indian Railway, Trichinopoly.

Ref: Your letter No.154/M.S.R.R. dated 21-1-44, regarding sullage water from Government Head Quarters Hospital.

.....

The Sanitary Engineer to the Government of Madras is being consulted on this subject and necessary action will be taken on receipt of his advice.

VG.

13

Copy of letter No.3011/45-6/Drge., dated 10th August 1945 of the Sanitary Engineer to Government, Chepauk, Madras, to the Chief Engineer, P.W.D. Building and Defence, Madras.

Sub: Disposal of sewage and sullage water -.Govt. Headquarter's Hospital, Mangalore.

Ref: Your endt. No.2532-Wks/45-1. dated 16-6-1945.

1. In para I of the Medical Officer, South Kanara's letter to the Surgeon-General with the Govt. of Madras he complains that the soak pits are not functioning properly and that there are no proper arrangement for the disposal of sewage and sullage water of the hospital. By sewage and sullage the medical officer means only the sullage and not sewage as the existing latrines are all of the dry earth type.

2. The Executive Engineer (P.H.) Southern Circle who was recently in Mangalore had occasion to see the Hospital and the existing sanitary arrangements. As now existing the sullage water from the main water &c. of the hospital except that of Nurses quarters, sub-assistant Surgeons' quarters and the T.P. Ward in led by pucca masonry drain to soak pit A in the South eastern corner of the hospital compound as shown on the enclosed blue print plan and the effluent finally falls into the storm water drain which is 6 to 7 ft. lower in level. At the soak pit there is also a bypass arrangement to divert the water from the T.P. Ward and the nurses quarters is led by masonry drains to soak pits B & C respectively shown on the blue print plan. There are no silt pits with screening arrangements on the drain from nurses quarters and the T.P.Ward but there is only a small silt pit (P) on the main drain near soak pit A. The number of silt pits are quite inadequate to arrest the dry leaves falling in, cotton waste and other floating matter besides grit &c.

3. To ensure proper disposal of sullage only I would suggest the following:-

(a) Provision of adequate number of silt pits with screening arrangements as shown on design P.H. No.109/39.

(b) Soak pits B and C should be abandoned and the masonry drains from T.P.Ward and nurses quarters etc., connected to the main drain above the soak pit 'A'

(c) The soak pit A should be converted into a grit chamber with proper screening arrangements.

(d) Provision of a preliminary settling tank of two hours capacity below A (to be located suitably in the high or low ground) before letting the sullage into the storm water drain below. A septic tank as mentioned in para 1 of D.M.O. letter may not function satisfactorily as the sullage may contain phenyle and other disinfecting agents. I would suggest that a sampe of normal sullage at the disposal point now received may be got analysed by the Director, King Institute to see if it contains too high a concentration of disinfecting agents to prevent proper bacterial treatment in settling tanks and dispersion trenches. After knowing the result of such analysis a dispersion trench should be added after the settling tank.

15

(e) Provision of a grease trap as per design C.A.No.193/43 just below the kitchen.

(f) Provision of a storm water separator just above the grit chamber to divert any excess water during rains over and above the normal sullage flow entering the preliminary treatment tank similar to design San. No.89/30.

(g) The hospital authorities should take proper care to ensure that waste cotton, lint, orange peels, egg shels, etc. do not find their way into the sullage drain but should be deposited in closed receptacles or bins to be kept in the hospital wards it contents being cleared frequently and not less often than twice a day.

4. The Executive Engineer, P.W.D. may be instructed to prepare plan and estimate. He will be given necessary advice and designs in the drawing up of the above proposals if required.

5. There is already a scheme drawn up but that deferred for the period of war for converting the existing dry earth latrines in the four main wards into flush out ones. Before this is taken up the conversion of dry earth latrine into flush out one, proposed by the Dt. Medical Officer for the nurses quarters also may be included if the Surgeon General approves this proposal.

17

Ref.No.37351-M1/47. D3 Office of the Surgeon-General with the Government of Madras, Madras,8, 7th June 1947.

From

Colonel S.L.Bhatia, C.I.E.,M.C.,M.A.,M.D.,F.R.C.P.,(Lond.) I.M.S., Surgeon-General with the Govt. of Madras.

To

The Secretary to Government, Education and Public Health Department, Madras.

Sir,

Subject.- Buildings - Headquarters Hospital, Mangalore - Disposal of storm and sullage water - remarks offered.

Reference.- Government endorsement No.38642-D3/47-1 P.H., dated 19th May 1947.

ASSISTANT SECRETARY TO GOVERNMENT EDUCATION AND PUBLIC HEALTH DEPARTMENT 11 JUN 1947

4813

In G.O.No.Ms.471 P.W.D. dated 24th February 1947 a sum of Rs.7,300/- has been sanctioned for carrying out improvements to the surface drains in the compound of the Government Headquarters Hospital, Mangalore. The Executive Engineer, Calicut, has already been requested by the District Medical Officer, South Kanara, to carry out the work as expeditiously as possible and he has also been reminded in the matter.

The Director of Public Health, Madras, has also requested the Sanitary Engineer to Government, to have the work pushed through as early as possible.

The enclosures received with the Government endorsement cited above are herewith returned.

Your obedient servant,

for Surgeon-General with the Govt.of Madras.

kcv.7/6.

Memo No. 38642 D3/47-3 P.H. dated 17-6-47

Buildings - Head Quarters Hospital Mangalore - Improvement of surface drains

A copy of a letter from the South Indian Railway is forwarded to the C.E (G.B+D). He is requested to see that the work mentioned in G.O. No. P.W.D. dated 2-4-47 is carried out expeditiously.

16-6-47

To

The C.E (G.B+D)

(with copy of letter dated 7-6-47)

The S.G (W.R.T.)

Ref: No: 37351-M1/47 dated 7-6-47)

Letter No. 38642 D3/47-2 P.H. dated 17-6-47

To The General Manager

South Indian Railway

Trichinopoly.

Mangalore Railway Colony - Improvement of Sanitation

ASSISTANT SECRETARY TO GOVT
25 JUN 47
HOME DEPARTMENT

With reference to your letter no. G.M. 363/1 dated 2-5-47, I am to state that with regard to the nuisance caused by the flow of sullage water from the compound of the Asst. Headquarters Hospital, Mangalore, the Asst. Surgeon has recently in Feb. 47 the execution of certain improvements to the surface drains of the hospital at an estimated cost of Rs. 7300/-. and that the C.E (C&B+D) P.W.D. has been asked to have the improvements carried out expeditiously.

I am to add that in so far as the Police lines are concerned, the letter has been passed on to the Home Dept. for necessary action.

Y.O.

16/6/47

14/6/47

20/6.

Home 30 GAD 33/WJ-5
23-6-47

note: After issue, the papers may be sent to PWD through the Home Dept

16/6/47

Home / P. WD (ai)

D3 21 Home dept

Please see pp. 1-2 ante. ~~with~~ the file referred ~~to~~ at A on p. 2 ante, the remarks of the D.I. of Police would have been called for. This may be passed on to P.W.D.

28-6-47 28.6.47

28.6.47 PWD

I.W.D. (2)

P.W.D.

The file may be perused and passed to E & P.H. Deptt.

Home no 6209 K/47-1

30/6/47 2/7/47 3/7/47

3/7/47

E & P.H. (D.)

may be filed with ref. to P.W.D. dated 24-2-47

5/7/47

PUBLIC WORKS DEPARTMENT :: ASSISTANT SECRETARY TO GOVERNMENT :: 3979 8 JUN 1947

ASST. SECRETARY TO GOVERNMENT :: EDUCATION AND PUBLIC HEALTH DEPT. :: 5 JUL 1947 55021

P.W.D U.O. No. 3979 C/47-1